

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,913	11/21/2003	Nobuo Ichimura	062709-0118	7376
22428 75	90 11/28/2005		EXAM	INER
FOLEY AND LARDNER LLP		BOCHNA, DAVID		
SUITE 500 3000 K STREE	TNW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007		3679		

DATE MAILED: 11/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/717,913	ICHIMURA ET AL.			
Office Action Summary	Examiner	Art Unit			
-	David E. Bochna	3679			
The MAILING DATE of this communication app		e correspondence address			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the course the application to become ABANDO	ON timely filed			
Status	·				
1) Responsive to communication(s) filed on 20 S 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowa closed in accordance with the practice under B Disposition of Claims 4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) 5-12 is/are withdraws 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 13-15 is/are rejected.	s action is non-final. nce except for formal matters, p Ex parte Quayle, 1935 C.D. 11,				
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/c	or election requirement.				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposite and accomposite accomposite and accomposite accomposite and accomposite and accomposite accomposite and accomposite accomposite accomposite accomposite accomposite accomposite and accomposite accomp	cepted or b) objected to by the drawing(s) be held in abeyance. Stion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regard to claim 1, it is unclear how the second member can both have a blade portion and also engage the stepped portion of the first member. Looking at fig. 1A-1B it can be seen that the blade 41 never contacts the stepped portion 24, only member 31 contacts this stepped portion.

Additionally, the preamble of claim 1 recites a structure for connecting a first member and a second member. Looking at figs. 1A-1B it can be seen that the blade portion (the second member as labeled by the Applicant) is not connected to the first member (21), it is only used to facilitate a connection between members 30 and 21. Therefore it is unclear how the member 40 can be considered a "second member" in the claimed structure when member 40 is not connected to the first member 21.

For purposes of examination, member 30 is considered by the Examiner to be the "second member" because claim 1 states that the stepped portion is engaged by the second member and member 30 contacts the stepped portion where member 40 with the blade portion 41 never contacts portion 24, as shown in figs. 1A-1B.

Application/Control Number: 10/717,913 Page 3

Art Unit: 3679

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Wilson et al.

In regard to claim 1, Wilson et al. discloses a structure for a first member and a second member, comprising:

a first member 20 having a peripheral wall portion including a stepped portion 62 engaged with a second member 28, the peripheral wall portion being a deformed portion 74 deformed inwardly of the stepped portion 62 of the first member, the deformed portion 74 having a thin shape provided by a cut section of the peripheral wall portion.

The limitations "wherein the deformed portion is formed by a cut performed by the blade portion, and wherein the blade portion includes an inclined face portion that is recessed with a curvature" is considered a product by process limitation and is given little patentable weight because the claimed invention is drawn only to "a structure for connecting a first member and a second member". The connecting structure is the deformed portion, not the tool that the produces the structure. Therefore the process of using a cutting tool with a curved cutting blade is given little patentable weight.

In regard to claim 2, Wilson et al. discloses a connecting structure of a pipe connected to a passage formed in a member, comprising:

a projection portion 42 provided so as to project from the pipe radially and outwardly;

Art Unit: 3679

a recess portion 56 provided at an open end of the passage formed in the member and receiving the projection portion of the pipe; and

Page 4

a peripheral wall 74 portion engaged with the projection portion by bending and deforming the peripheral wall portion inwardly of the recess portion while cutting the peripheral wall portion in a thin shape at a distance from the recess portion so that the pipe inserted into the opening end of the passage in the member and the projection portion of the pipe has been received in the recess portion are connected.

The limitations "wherein the peripheral wall portion is deformed by a cut performed by the blade portion, and wherein the blade portion includes an inclined face portion that is recessed with a curvature" is considered a product by process limitation and is given little patentable weight because the claimed invention is drawn only to "a connecting structure for connecting a first member and a second member". The connecting structure is the deformed portion, not the tool that the produces the structure. Therefore the process of using a cutting tool with a curved cutting blade is given little patentable weight.

In regard to claim 3, wherein the projection portion 42 is formed in an annular shape on an outer periphery of the pipe, the recess portion is formed in an annular shape on an outer periphery of the passage in the member, and the peripheral wall portion 74 is deformed inwardly in a continuous annular shape.

5. Claims 2, 4 and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Gaitros et al.

In regard to claim 2, Gaitros et al. discloses a connecting structure of a pipe connected to a passage formed in a member, comprising:

a projection portion 4 provided so as to project from the pipe radially and outwardly; a recess portion 6 provided at an open end of the passage formed in the member and receiving the projection portion of the pipe; and

a peripheral wall portion 8 engaged with the projection portion by bending and deforming the peripheral wall portion inwardly of the recess portion while cutting the peripheral wall portion in a thin shape at a distance from the recess portion so that the pipe inserted into the opening end of the passage in the member and the projection portion of the pipe has been received in the recess portion are connected.

The limitations "wherein the peripheral wall portion is deformed by a cut performed by the blade portion, and wherein the blade portion includes an inclined face portion that is recessed with a curvature" and the limitations to the cutting blade in claims 13-15 are considered product by process limitations and are given little patentable weight because the claimed invention is drawn only to "a connecting structure for connecting a first member and a second member". The connecting structure is the deformed portion, not the tool that the produces the structure. Therefore the process of using a cutting tool with a curved cutting blade is given little patentable weight.

In regard to claim 4, wherein the projection portion is formed in an annular shape on an outer periphery of the pipe,

the recess portion is formed in an annular shape on an outer periphery of the passage in the member, and

the peripheral wall portion is bent and deformed inwardly at intermittent sections in a circumferential direction (see figs 6-8).

Application/Control Number: 10/717,913 Page 6

Art Unit: 3679

Response to Arguments

6. Applicant's arguments have been fully considered but they are not persuasive. The limitations drawn to the structure of the cutting blade are given no patentable weight because the claims are drawn to a connecting structure (the deformed portion) and not to a cutting tool or a process of deforming the first member. Therefore the prior art rejections have been maintained.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Bochna whose telephone number is (571) 272-7078. The examiner can normally be reached on 8-5:30 Monday-Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571) 272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/717,913 Page 7

Art Unit: 3679

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David E. Bochna Primary Examiner Art Unit 3679